

Title (en)  
FLAME RETARDANT ELECTRICAL CABLE

Title (de)  
FLAMMHEMMENDES ELEKTRISCHES KABEL

Title (fr)  
CÂBLE ÉLECTRIQUE IGNIFUGE

Publication  
**EP 3712907 A1 20200923 (EN)**

Application  
**EP 20162325 A 20200311**

Priority  
IT 201900004127 A 20190321

Abstract (en)  
A flame-retardant electric cable (10) is disclosed, the cable (10) having a core comprising an electric conductor (11) and an electrically insulating layer (12) comprising a flame-retardant polyolefin-based composition comprising:a) as base polymer, a mixture of at least two polyolefin homopolymers and/or copolymer wherein at least one is a low-density polyethylene copolymer having a density lower than 0.915 g/cm<sup>3</sup>;b) calcinated kaolin in an amount greater than 3 phr;c) a metal hydroxide in an amount greater than 10 phr; andd) an alkyl or alkenyl alkoxy siloxane,wherein the alkyl or alkenyl alkoxy siloxane is in an amount ratio of from 1:25 to 1:50 with respect to the sum of the amounts of calcinated kaolin and of the metal hydroxide.

IPC 8 full level  
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CPC (source: EP US)  
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Citation (applicant)  
• US 2003134969 A1 20030717 - SCHLOSSER THOMAS [DE], et al  
• US 6750282 B1 20040615 - SCHALL NORBERT [DE], et al  
• CN 102219948 A 20111019 - HUBEI KEPUDA IND CO LTD

Citation (search report)  
• [A] US 2002001715 A1 20020103 - REDONDO EDUARDO GRIZANTE [IT], et al  
• [A] US 2014030520 A1 20140130 - NAKAMURA YOSHIAKI [JP], et al  
• [A] WO 2013030795 A1 20130307 - R & D INNOVATION S R L [IT], et al

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